Assignment-7

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and latex-tikz codes from

1 QUESTION No-2.70

Find $\mathbf{P^{-1}}$. if it exists, given P $= \begin{pmatrix} 10 & -2 \\ -5 & 1 \end{pmatrix}$

2 SOLUTION

Given that

$$\mathbf{P} = \begin{pmatrix} 10 & -2 \\ -5 & 1 \end{pmatrix} \tag{2.0.1}$$

$$\xleftarrow{R_2 \leftarrow R_2 + 1/2R_1} \begin{pmatrix} 10 & -2 \\ 0 & 0 \end{pmatrix} \tag{2.0.2}$$

$\det \mathbf{P} = 0$

Does not exists P^{-1}